



Please read instructions on reverse before completing form.

 United States Environmental Protection Agency Washington, DC 20460		<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
Application for Pesticide - Section I			
1. Company/Product Number 100-1466		2. EPA Product Manager Erik Kraft	
4. Company/Product (Name) Acuron® Herbicide		3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted	
5. Name and Address of Applicant (Include ZIP Code) Syngenta Crop Protection, LLC P. O. Box 18300 Greensboro, NC 27419 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	
Section – II			
<input type="checkbox"/> Amendment - Explain below. <input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Notification - Explain below. <input checked="" type="checkbox"/> Other - Explain below.			
Explanation: Use additional page(s) if necessary. (For Section I and Section II.). Syngenta Crop Protection, LLC submits the 2017 Acuron Use Report to satisfy a Condition of Registration as required in the Notice of Registration for Acuron Herbicide (100-1466).			
Section – III			
1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No <i>*Certification must be submitted</i>	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" No. per Unit Packaging wgt. Container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" No. per Unit Packaging wgt. container	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container	
		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Other <u>Pressure Sensitive</u> <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			
Section - IV			
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Amanda Foderaro		Title Regulatory Specialist	Telephone No. (Include Area Code) 336-632-2098
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 		3. Title Regulatory Specialist amanda.M.foderaro@syngenta.com	
4. Typed Name Amanda M. Foderaro		5. Date March 29, 2018	

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

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EPA PSP

Confidential Business Information Enclosed

March 29, 2018

Document Processing Desk (COR)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

**Attention: Mr. Erik Kraft, PM Team 24,
Fungicide-Herbicide Branch Registration Division**

**SUBJECT: Acuron® Herbicide (EPA Reg. No. 100-1466)
Submission of 2017 Annual Use Report
Required as a Condition of Registration**

Dear Mr. Kraft:

Acuron (EPA Registration No. 100-1466) is a herbicide marketed by Syngenta Crop Protection, LLC. It was granted conditional registration by the EPA on April 24, 2015. Acuron is a formulated premix with four separate active ingredients (A.I.) including S-metolachlor, mesotrione, atrazine and the new A.I. bicyclopyrone.

As part of the registration requirements for Acuron, EPA required the submission of an annual report documenting the use of specific Syngenta products with Acuron. The enclosed confidential use report is being submitted to support this requirement. Additionally, Syngenta will be requesting a meeting with the Agency to discuss the supporting data and analysis.

Enclosed in support of this submission are the following documents:

- Confidential Syngenta 2017 Acuron Use Report

Thank you in advance for your attention to this submission. If needed, I may be reached at (336) 632-2098 or via email at amanda.m.foderaro@syngenta.com.

Kind Regards,

Amanda M. Foderaro
Regulatory Specialist, Herbicides

Enclosures

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**Syngenta 2017 Acuron® Use Report:
A Condition of Registration of Acuron by EPA**

Executive Summary

Acuron® (EPA Registration No. 100-1466) is a corn herbicide that was granted conditional registration by the EPA on April 24, 2015. The Terms and Conditions of Registration for Acuron included a projected 3.6 million pounds net reduction of atrazine per year. This reduction is intended to be achieved in the 2020 growing season, with an interim target of 1.6 million pounds in the 2018 growing season. Reported here are the reductions achieved in the 2017 growing season.

Acuron is a formulated premix with three complementary modes of action from four separate active ingredients (A.I.), including the new A.I. bicyclopyrone. Acuron use has provided a high level of multi-targeted control of difficult weeds, including weeds resistant to other herbicides.

In the 2017 growing season, corn acres in the United States were down, corn farmer profitability was impacted by depressed commodity prices, and control of many devastating weeds was more difficult due to increasing herbicide resistance. [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Discussion of Market Conditions and Trends

Since [REDACTED], corn acres have been on a declining trend nationally, with a notable decrease in 2017. Total corn acres grown in the United States in 2017 were 90,130,000, which were lower

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than both the [REDACTED] and the 2016 total of 93,365,001 acres. In 2018, the number of soybean acres are expected to exceed the number of corn acres nationally for the first time in decades. This is a direct result of deteriorating corn commodity prices, which in 2017 averaged below the breakeven cost of production price for many producers. Under these challenging and unforeseen market conditions, producers consider all potential savings regarding inputs like fertilizer, herbicides, seed, and other variable costs. For example, a \$20 per acre cost savings on weed control could be the difference between profit and loss. Because of this emphasis on cost savings, producers have gravitated towards more economical weed control programs. [REDACTED]
[REDACTED]
[REDACTED]

The changing market conditions and weed resistance management have caused a shift in herbicide use patterns. Herbicide resistance continues to expand, with multiple resistant weeds (e.g. Palmer amaranth, waterhemp, giant ragweed, marehail) across multiple sites of action, including glyphosate, HPPD, PPO and ALS herbicides. This expanded resistance is occurring more prominently in soybeans, which is increasing weed seeds in the soil seed bank and resulting in greater populations of resistant weeds to be controlled in subsequent corn crops [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Adoption of Acuron in 2017

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

¹

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Atrazine Use Rate in 2017

As previously discussed, unforeseen market forces have [REDACTED]
[REDACTED] Farmers have faced more and more difficult-to-control, resistant weeds across a wider range of geographies.

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Calculation of Reductions in Pounds of Atrazine Used with Acuron

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]

Stewardship

The goals of the Acuron stewardship plan include promoting sustainable agricultural production and weed management practices. One aspect is to raise awareness among

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Acuron users of the ability to minimize the application of additional herbicides (including atrazine) due to the high level of control of difficult weeds provided by the bicyclopiron in Acuron. Additionally, Acuron users are being made aware of the resistance management advantages provided by multiple modes of action within Acuron, the importance of integrated pest management (IPM), soil management, and best management practices (BMPs) to reduce offsite movement of herbicides.

In the first quarter of 2017 (Q1) Syngenta developed and submitted an Acuron stewardship brochure. The brochure outlines the proper use and benefits of Acuron. It also illustrates key messages concerning best management practices, including:

- **Weed Resistance Management:** The ability to control difficult weeds with multiple modes of action.
- **Flexibility of Application:** Acuron can be used pre-emergence, post-emergence (up to 12 inch corn), or as a split application, which offers multiple ways to better manage atrazine in sensitive watersheds.
- **Reduced Atrazine Rates with Acuron:** In many situations, there is no need to add extra atrazine to the herbicide program because of Acuron's excellent weed control due to multiple modes of action. However, the flexibility to use additional atrazine is needed for agronomic situations where soil conditions or weed resistance management warrant it.
- **5-Step Herbicide Stewardship:** Correct Use, Reason, Application, Rate, and Product.

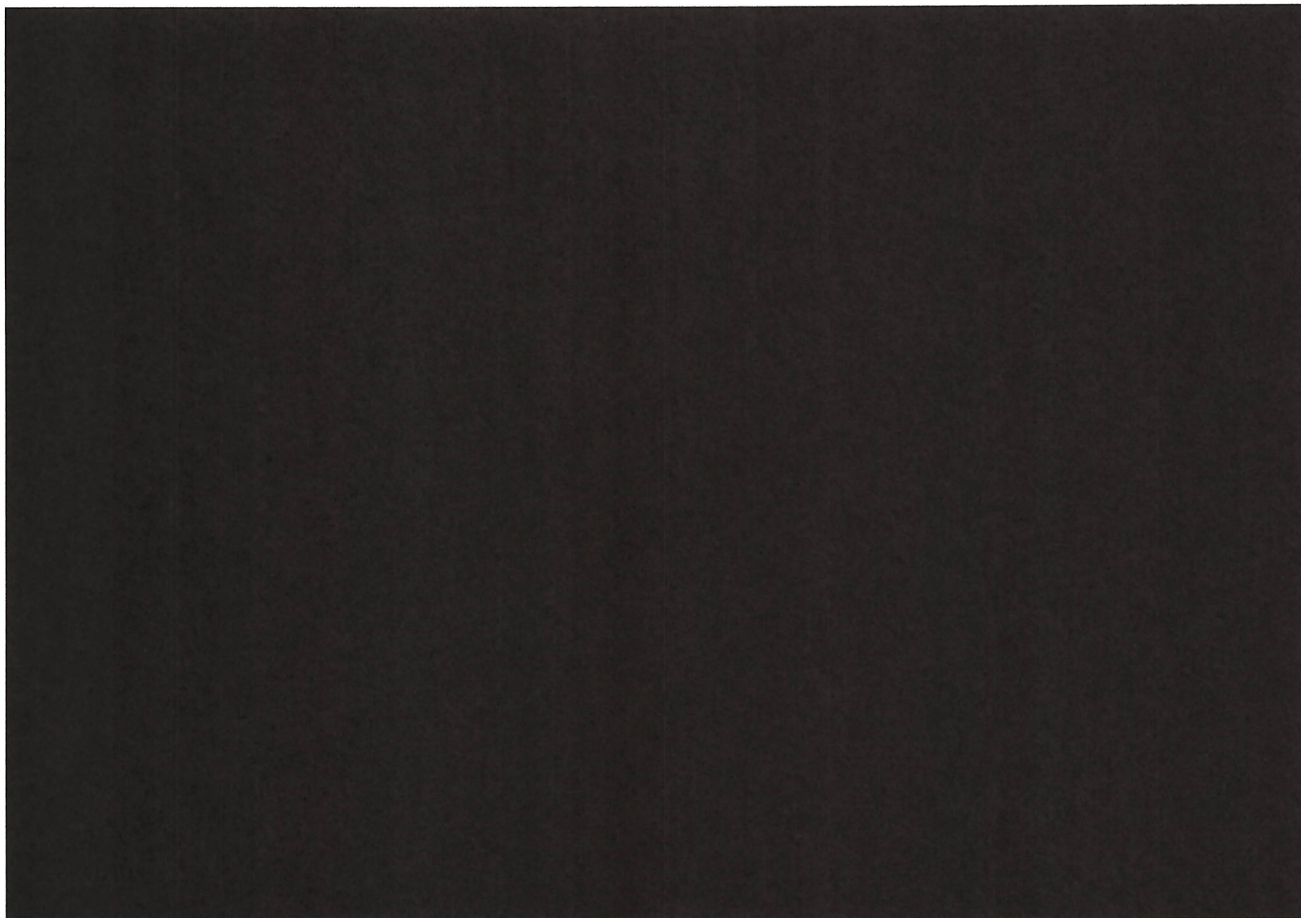
[REDACTED]

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Table 1. Calculation of Reductions of Atrazine with the Adoption of Acuron, as Compared to [REDACTED], 2016 and 2017 Use Seasons²

Row #		2016 Acuron	2016	2017 Acuron	2017
1	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
2	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
3	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
4	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
5	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
6	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
7	[REDACTED]			[REDACTED]	
8	[REDACTED]			[REDACTED]	
9	[REDACTED]			[REDACTED]	
10	[REDACTED]			[REDACTED]	

² National corn acres: [REDACTED]. 2016 = 93,365,001 acres. 2017 = 90,130,000 acres.



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